

Appl. No. 09/040,560
Reply to Office Action of June 16, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An information signal device connected to a network, comprising:

at least one object for generating messages concerning events occurring in the information signal device, wherein said messages have specified and unspecified destinations;

an event manager for directing the messages generated by the at least one object to destinations inside and outside the information signal device;

a network messenger for transmitting generated messages to a specified destination on the network directed by the event manager;

a broadcast manager for broadcasting generated messages having unspecified destinations to the network as directed by the event manager, wherein the broadcast manager broadcasts each message with reference information attached thereto, the reference information changing at each message broadcast according to a predetermined sequence, and

wherein the messages generated by the at least one object are delivered by exchanging the messages with the event manager in a one-to-one communication, and wherein the at least one object does not discriminate whether the destinations of the messages are outside or inside the information signal device.

Claim 2 (currently amended): An information signal device according to Claim 1, wherein the broadcast manager ~~broadcasts each message with reference information attached thereto, the reference information changing according to a predetermined sequence at each message broadcasting, and~~ holds the broadcast messages and transmits the held messages in response to a transmission request from the event manager.

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Claim 3 (currently amended): An information signal device connected to a network, comprising:

at least one object for generating messages concerning events occurring in the information signal device, wherein said messages have specified and unspecified destinations;

an event manager for directing the messages generated by the at least one object to destinations inside and outside the information signal device;

a network messenger for transmitting generated messages to a specified destination on the network directed by the event manager;

a broadcast manager for broadcasting generated messages having unspecified destinations to the network as directed by the event manager, and

wherein the messages generated by the object are delivered by exchanging the messages with the event manager in a one-to-one communication, and wherein the at least one object does not discriminate whether the destinations of the messages are outside or inside the information signal device. An information signal device according to Claim 1, wherein the broadcast manager also receives broadcast broadcasted messages from the network, and recognizes a change in reference information attached to the a broadcast broadcasted message received from the network, wherein the reference information changes at each message broadcast according to a predetermined sequence and requests a sender of the broadcast a broadcasted message to retransmit the broadcasted message in response to a result of the recognition.

Claim 4 (previously presented): An information signal device according to Claim 2, wherein the broadcast manager broadcasts, in a predetermined repetition period, verification information having a predetermined relationship with the reference information.

Claim 5 (previously presented): An information signal device according to Claim 4, wherein the broadcast manager deletes the held message at a moment a duration longer than twice the predetermined repetition period elapses.

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Claim 6 (currently amended): An information signal device according to Claim 3, wherein the broadcast manager ~~receives broadcast messages from the network, and also receives~~ verification information transmitted to the network, and requests a device, which has transmitted the verification information, to transmit the broadcasted message ~~when there is no predetermined relationship between~~ if the received verification information and the reference information attached to the received message does not include an expected next value in the predetermined sequence.